SlicingIndexingManipulatingAndCleaningPandasDataframe

September 8, 2025

```python
[1]: import pandas as pd
```

```python
[2]: player_list = [['M.S.Dhoni', 36, 75, 5428000],
                    ['A.B.D Villers', 38, 74, 3428000],
                    ['V.Kohli', 31, 70, 8428000],
                    ['S.Smith', 34, 80, 4428000],
                    ['C.Gayle', 40, 100, 4528000],
                    ['J.Root', 33, 72, 7028000],
                    ['K.Peterson', 42, 85, 2528000]]
```

```python
[3]: df = pd.DataFrame(player_list, columns=['Name', 'Age', 'Weight', 'Salary'])
```

```python
[4]: print(df)
```

```
            Name  Age  Weight   Salary
0       M.S.Dhoni   36      75  5428000
1   A.B.D Villers   38      74  3428000
2         V.Kohli   31      70  8428000
3         S.Smith   34      80  4428000
4         C.Gayle   40     100  4528000
5          J.Root   33      72  7028000
6      K.Peterson   42      85  2528000
```

```python
[5]: df1 = df.iloc[0:4]
     print(df1)
```

```
            Name  Age  Weight   Salary
0       M.S.Dhoni   36      75  5428000
1   A.B.D Villers   38      74  3428000
2         V.Kohli   31      70  8428000
3         S.Smith   34      80  4428000
```

```python
[6]: df1 = df.iloc[:, 0:2]
     print(df1)
```

```
            Name  Age
0       M.S.Dhoni   36
1   A.B.D Villers   38
2         V.Kohli   31
```

```
3      S.Smith   34
4      C.Gayle   40
5      J.Root    33
6    K.Peterson  42
```

[7]:
```python
value = df.iloc[2, 3]
print("Specific Cell Value:", value)
```

```
Specific Cell Value: 8428000
```

[8]:
```python
data = df[df['Age'] > 35].iloc[:, :]
print("\nFiltered Data based on Age > 35:\n", data)
```

```
Filtered Data based on Age > 35:
             Name  Age  Weight   Salary
0       M.S.Dhoni   36      75  5428000
1   A.B.D Villers   38      74  3428000
4        C.Gayle   40     100  4528000
6     K.Peterson   42      85  2528000
```

[9]:
```python
df.set_index('Name', inplace=True)
custom = df.loc['A.B.D Villers':'S.Smith']
print(custom)
```

```
                Age  Weight   Salary
Name
A.B.D Villers    38      74  3428000
V.Kohli          31      70  8428000
S.Smith          34      80  4428000
```

[10]:
```python
value = df.loc['V.Kohli', 'Salary']
print("\nValue of the Specific Cell (V.Kohli, Salary):", value)
```

```
Value of the Specific Cell (V.Kohli, Salary): 8428000
```

[ ]: